# MOUNTAIN AGRICULTURE

Conducted by Mr. Robert F. Spence, Farm Demonstrator and Special Investigator

will be held at McKee at 7:00 p. m. than cowpeas. tend these meetings.

There has been many questions asked me in the last few weeks in regard to soy beans and cowpeas. The following article will explain:

### THE SOY BEAN

Soy beans make a bay for excelclover and cowpea hay

For a brief period, soy beans may be used for pasture, especially desirable for hogs.

soiling and silage purposes, Feeding trials indicate that soy bean grain in a large measure may take the place of concentrated feeds for all classes of live stock.

The soy beans on the Berea State Experiment Field produced 3075 pounds, while the half that was planted in rows and cultivated propart produced the biggest and rankest growth but the stock ate the broadcast better-the stalks were eat all for hay. While on the other richer in protein and oil than cowhand the cultivated half left the peas. ground in much better shape for a winter corp. Try them both ways. Call on Mr. George Pigg and he'll be glad to tell you the value of soy beans.

Soy beans may be grown for seed, which commands a good price. The growing of soy beans improves the a cherry soil by increasing its store of nitrogen and by correcting its physical conditions.

Throughout the Atlantic states purposes on his farm. the crimson clover crop may be followed the same season by soy beans thus producing two forage crops

#### SOY BEANS COMPARED WITH COWPEAS

for similar conditions

plant, irregularities of season will people.

frequently cause an after growth of State Poultry Agent Mr. Chapan the plant. A condition which does and Madison County Lady Agent, Miss Ogleshy, will meet with us at ference in maturing habit is dis-Miss Ogleshy, will meet with us at ference in maturing habit is dis-Clover Bottom next Saturday at our tinetly in favor of soy beans, in as regular Farmers' Club Meeting, to much as the latter may be more of farmer to take advantage of fabe held at 1:00 p. m. A big meeting easily harvested for seed or hay vorable conditions in disposing

Most varieties of soy beans grow County Agent Reynolds and Miss etect or nearly so; cowpeas are according to competent authori-Spence. Everybody is invited to at- viney, and hear pods so near the + ties. ground that it is difficult to save the ing upon the cost of living. seed by machinery

Frost is less likely to injure soy heans than cowpeas, which are kill- . frequently hear of the low cost . d by light iroste

sect enemies and plant diseases than

For seed productions on clay soil lent feeding quality, superior to red the soy bean is much more desir- we are paying a heavy tribute \* able than the cowper. Experiments + to bad roads. A reduction in + at the Delaware Station shows that say beans will parather, on the aver-Soy beans are well adapted for tige, to hushels note seed per acre

value of soy beet and cowpeas for nowing under to areen manure.

There is less loss of leaves in andling soy beans for hay than cowpeas if they are cut at the right + Hams. time. The loss of leaves on the Bethat was broadenst produced 1581 rea Experiment Field was not conabout 10 days after blooming.

Cowpeas are better adapted for or for hogging.

Soy beans crack less in threshing than cowpeas. They are also

Soy bean stubble and roots leave more organic matter in the soil than cowpeas.

On the Berea State Experiment Field, we found on the roots of one stalk, 23 nitrogen nodules from the size of a wheat grain to the size of

I would advise all farmers to try both these crops and see just which one proves better for him and his

#### NOTES.

I am anxious for the time to hasfrom the same land in one year. On ten when more of our farmers in account of rapid growth soy beans the mountains will cease to grow are admirably adapted for a green corn alone-and grow more legumes manure erop after wheat, early po- and grasses; build more silos and tatees, or other early maturing feed better stock. The way to do this is to begin now.

The biggest question now before the farmer is Cooperation. How Soy beans are very similar to can we ever be strong if we fail to cowpeas with respect to season of Cooperate? United we stand, dividgrowth and cultural requirements, ed we fall. We need strength-yet Since the two crops occupy the we are the strongest people on ment and the states is that a state same place in crop rotation, it is earth. Without us the nation well to contrast their adaptability would perish. Since we are the chief corner stones of this nation -Soy beans mature uniformly, the let's unite our hands and hearts and pods ripening practically at the be one great source of power, in- states on the basis of population, route same time; cowpeas often bear ripe fluence and helpfulness to each and mileage. pods and blossoms on the same other and the rest of the laboring

# CINCINNATI MARKETS

Corn-No. 2 white 7614@77c, No. 3 white 76@76½c. No. 4 white 73½@ 74½c. No. 2 yellow 76½@77c. No. 3 yellow 76@761/c. No. 4 yellow 731/2@ 741/c. No. 2 mixed 76@1/2761/c. No. 3 81@83c, mixed ear 79@81c.

Hay-No. 1 timothy \$22,50@23c. No. 2 \$20 50@21. No. 2 \$17.50@19. No. 1 clover mixed \$19.50@20.50, No. 2 \$17.50 @18.50, No. 1 clover \$15, No. 2 \$13.

Oats-No. 2 white Northwestern 52 654c, standard white Northwestern 4 white 44@44½c, No. 2 mixed 43½@ 44½c, No. 3 mixed 42½@43½c, No. 4 mixed 411/2/0421/2c.

Wheat-No. 2 red \$1.22@1.24, No. 3 \$1.16@1.20, No. 4 \$1.02@1.10.

Eggs-Prime firsts 2014c, firsts 20c, ordinary firsts 19c, seconds 175c.

Poultry—Broilers, 1½ to 1½ lbs, 35 @38c; over 1½ lbs, 30@35c; fowls, 4 lbs and over, 18c; under 4 lbs, 18c; ong set them in a droosters, old, 11c; ducks, white, 3 lbs rentilation is good. lbs and over, 14, under 3 lbs, 12c; colored, 11c; hen turkeys, 8 lbs and over, 20c; young tom turkeys, 10 lbs over, 20c; crooked breasted, 10@12c; culls 6@8c.

Cattle-Shippers \$8@9.25; butcher steers, extra \$8.75@9, good to choice \$8@8.75, common to fair \$6@7.75; heifers, extra \$8.75@9, good to choice \$8.25 @8.65, common to fair \$6@8; cows, extra \$6.85@7.25, good to choice \$6@6.75, common to fair \$4.75@5.85, canners \$4 @4.50, stockers and feeders \$5.50@

Bulls-Bologna \$6.25@7.25, fat bulls \$7.25@7.50.

Calves-Extra \$11@11.25, fair good \$9@11, common and large \$5@

Hogs—Selected heavy shippers \$10.05@10.10, good to choice packers and butchers \$10.05@10.10, mixed packers \$9.85@10.05, stags \$6@7, common to choice heavy fat sows \$7.75@9.40, select medium (160 to 180 lbs) \$9.25@ 9.90, light shippers \$9.35@9.50, pigs (110 lbs and less) \$6@8.40.

Sheep-Extra \$8@8.25, good to choice \$7.25@8, common to fair \$4.50 @6, sheared sheep \$6@7.50.

Lambs - Extra \$10.25, good to choice \$9.50@10.15, common to fair \$6@9.25, spring lambs \$10.50@13.

#### Don't Prune With an Ax. One would not think of amputating

an arm with an ax. and he should think the same way of the limb of a tree, for trees are in many respects | nance, like animals. Animal wounds must heal or harm will result, and it is the mixed 75½@76c, No. 4 mixed 73½@ same with tree wounds. If you go into 74½c, white ear 79@81c, yellow ear the orchard and back timbs off with an ax you are probably doing more harm than good. Many of these wounds will be jagged, and long stubs will be left. Many of these will never heal over. and as a result decay will set in, and a healthy tree may in a few years be ruined. Pruning is a necessary or chard practice, but slashing with an ax is not pruning .- C. W. Rapp, Oklahome Station

#### TIMELY POULTRY HINTS.

If you intend to use hens for hatchng set them in a dry place where the

If you do not intend to use hens for intching break them up at once and tet them to laying again.

A good way to break up a broody hen s to put her in a light, dry coop with wire or slat bottom that you can lang up. This permits free circulation of air, and as it blows up through the luff it reduces the fever which is in

heir blood at this time. This is the time to get out your win er layers.

Hens suffer from a damp benhouse to it is well to keep the floor covered

with litter. Keep a flock of hens, a good cow or wo, prepare for a good garden this ear, and you won't have to complain of the high cost of living.-North Da-

tota Agricultural College. A Financial Difficulty. "Seaweed has been found to be pro-

lific in fuel oil." "But if they organize a company to exploit it, won't they first have to squeeze the water out of the stock?"-Baltimore American.

### FARMERS AND HIGHWAYS.

Parming is a business, and, like any other business man, the farmer must consider the impored to move their crops when the

Good roads not only enable the of his crops, but reduce the cost of hauling at least two-thirds,

which is a most important con-+ sideration for the consumer. We + • of living in Europe in normal • Soy beans are insured less by in- conditions, and when we consider that our average cost of haul-+ ing per ton mile is 25 cents, + compared with 8 cents to 12 ◆ + cents in Europe, we realize that + • the cost of transportation means •

lowering the market price. Also the supply of farm prod- + ucts, which generally determines + There is little difference in the # their market price, depends upon # + the condition of the country + roads. A shortage sends the prices soaring, and the consumer must dig deep into his pocket to & make the purchase,-S. M. Wil- #

### \$100.000.000 FOR ROADS.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*** 

A bill providing federal aid for main line interstate highways, which will have the support of national good roads organizations, has been prepared for congress to pass upon. A strong argument to be used in favor of the measure will be in connection with preparedness. It will be said that over the proposed interstate highways. by means of automobiles and motor trucks, troops could be mobilized rapidly. Construction of three transcontinental highways east and west and two north and south will be provided for if the bill becomes a law.

Several new features have been in corporated in this bill to avoid some of the objections and problems of the past. One of these is designed to reduce to a minimum logrolling as to the location of the through highways. This provision is that the fund appropriated shall be expended upon whatever main roads and post roads the secretary of agriculture and the highway department of the state in question shall determine. Thus the main course of the transcontinental lines would be in the hands of the secretary of agriculture. The department of agriculture has been making experiments in road building, especially as regards materials in different sections of the country, for several years,

Another feature in the bill of cooperation between the federal governshall appropriate a sum equal in amount to that allotted to it by the Furthermore. national government. the money appropriated by congress shall be distributed among the several

The amount to be asked of congress for this purpose will be \$50,000,000, according to information received in New York city. The plan is for the states to equal this amount so that a fund of \$100,000,000 would be provided for transcontinental road construction. Twenty per cent of the fund provided is to be reserved for mainte-

With the government assisting in the main line routes it is said that the states will have more money to build lateral or feeder lines, so that the proposed highways would be the backbone of a system of roads that would greatly reduce cost of transportation from the farm to the nearby market and thus be the introduction of a new national economy.

Millions For State Roads.

A total of \$54,829,000 was expended by the states for road building in 1915. according to a circular issued by the secretary of agriculture at Washington. In the list of states New York leads with \$15,000,000. California was sec ond with \$7,000,000. Next came Pennsylvania with \$5,000,000. Maryland stands fourth, \$4,572,000. Other states that spent over \$2,000,000 are Ohio, \$3,-200,000; Washington, \$3,107,000; Massachusetts, \$2,437,000; Illinois, \$2,100. 000

Improved roads to the extent of 35. 477 miles had been completed under state supervision at the outset of 1915. It was about twenty years ago that state governments began to make appropriations for road improvements; up to Jan. 1, 1915, the grand total set aside by the states for road improvements amounted to \$211,859,000. Showing the way this policy of the states has grown in recent times, the circular states that \$104,000,000 of the total was appropriated by the states since the begin ning of 1914.

Convicts on Illinois Highway. Fifty convicts from the southern Illinois penitentiary are building a highway from Ava, Jackson county, to the Mississippi river. No guards were sent with the convicts, and the officer in charge is unarmed. Each prisoner is allowed one day off his sentence for every two days worked on the roads Citizens of Ava and vicinity contributed \$2,500 toward the maintenance of the convict camp.

## HOME DEPARTMENT

Conducted by Miss Jessie S. Moore, Director of Home Science

freeze:

Always scald the ice cream can

Don't fill more than three-fourths

Crush ice in an old sack. Fine

Turn crank slowly at first then more

rapidly as cream freezes. Care must

be taken that water does not come

lees are better to stand awhile

never had good luck with sherhets 4

the thinner part in the center. The

full as ices expand in freezing.

COLD DESSERTS FOR HOT DAYS | Make boiled custard taking care As the days grow warmer we lose not to curdle. In order to do this + our appetites for many foods which scald milk in double boiler. Mix we have eaten thru the colder seas- with salt and sugar. Add hot milk ons. A change of diet is beneficial, gradually. Turn back into the double We should eat less of meat, oatmeal boiler and cook stirring constantly and other heating foods and more of until it coats the spoon. Then pour + the fresh vegetables which will soon out into cool dish quickly. When + always ventilated. But we manbe plentiful. Cold desserts are also this has cooled add 1 pt. cream and appetizing.

The following are some tried recipes for frozen desserts.

Lemon Milk Sherbet Grated rind of 1 lemon

Juice of 3 lemons f pt. sugar t qt. milk

A spk. salt. Makes a two quart freezer full! Orange sherbet may be from same ecipe made by using 2 oranges and

lemons for flavor. Strawberry sherbet by using juice

me box strawberries. over top of can. Care must be exercised in the mixing of the milk sherbets made with acid fruit juices. Add the juice to after being frozen. When the mixthe sugar and allow it to stand until fure is frozen take out dasher and it is partially dissolved. Pack freez. pack down cream. Then draw off er can nearly to top to chill it. Then water from freezer, pack ice and salt + times comes into the windows, mix the fruit juice and sugar with solidly around freezer being sure + even of our bedrooms. There are + milk and freeze at once. If allowed that the ice is crowded around the + various methods of keeping this + to stand the curds will separate so bottom of can. Leave plug out of + weather out. In case of too + much as to spoil the sherbet

### Orange Ice. (with water)

i cups water

2 cups sugar 5 cup lemon juice

Grated rind of two oranges Juice of four oranges

Make sirup as for lemon ice; add ingredients and put all into a bright fruit juice, cool, strain and freeze, tin bucket with a good lid. Pack in

Ice Cream To one quart of thin cream add fifteen minutes open and stir thoroly

three-fourths rup of sugar and one- getting all the part that has frozen half teaspoon of vanilla or any other on hottom and sides well mixed with flavor desired. Freeze. cream will not be as fluffy as that

Neapolitan Cream t qt. milk

Home Economics Are Now

Taught by Object Lessons.

OUR GOVERNMENT SPEAKS.

Just as the Art of Housekeeping Calls

For Acquaintanceship With Real

Brooms and Stoves, So Does the

Larger Field Require Real Cottages.

Housekeeping cottages, in which the

students obtain actual practice in

household work, are a prominent fea-

ture of current progress in home eco-

nomics, according to a report issued by

the department of the interior through

"The practice house is as distinctly a

legitimate part of the equipment for

teaching home economics as the sew

ing machine, ironing board or individ-

unl desk with its cooking utensits," de

"Home economics departments in

schools and colleges are not all so for-

tunate as to have residences in which

to instruct in home management and

in housewifery. There has been some

hesitancy among school officers be

cause of the initial expense of a prac-

tice house. But as it is recognized that

these houses are quite as necessary as

are good laboratories and that the

maintenance costs are not excessive

more departments are being thus sup-

plied. These houses offer opportuni

ties for experimental studies in house

hold administration, make practice in

home furnishing possible and afford

excellent places for studies in nutri-

are now a recognized course of study in

all agricultural colleges to which wo-

home economics, and most of the pri-

vate and denominational colleges and

universities now offer similar instruc-

tion. So important has the subject be

come in state public school systems

during the past two or three years that

now practically every state normal

school has a course in home economics

Summer schools are coming to play

an especially important part in home

economics teaching. The bureau of ed-

ucation received announcements from

192 schools that were offering courses

during the summer of 1914; in 1915 the

number reporting had increased to

230, and a still further increase is al-

Twenty-three states report an outline

of lessons in home economics for state

wide use. A state manual of study for

the public elementary schools of Ala-

bama contains an outline for lessons

in cooking and suggestions for the

teaching of sewing in the grades, with

lists of equipment and references for

domestic science teachers in the

grades. In California each county or

city board of education prescribes its

own course of study in home econom-

ics. An outline for a course of lessons

in home economics has been prepared

for the common schools of Illinois

This is made use of particularly in the

rural schools. The domestic science

section of the high school conference of

Illinois has recently completed a com-

prehensive outline for practical les

eighth grades.

sons in the fifth, sixth, seventh and

for prospective schoolteachers.

ready assured for 1916.

men are admitted. Thirty-one state

the bureau of education.

clares the report.

6 egg yolks 1 c. sugar

t t. salt

#### PRACTICE HOUSES FOR DRESSY OCCASIONS.

much better than none.

Net and Ribbon Still Hold Their Own on Afternoon Frocks.

This pretty frock is a combination of sage green het over satin in the same tone. The banding on the skirt, as well as the flowing girdle, is of wide velvet



The report says that home economics ribbon. The bodice is cut with bishop sleeves and surplice waist with a rose in the corsage. The white fox scarf may be discarded when warm days universities offer regular courses in come.

Tar Stains.

To remove tar stains rub the spot first with lard and then with soap. Leave for an hour and then wash in hot water softened with ammonia. Should slight traces remain rub with

Ancient Delphi.

Ancient Delphi was a small town in Greece on the southern slope of Mount Parmassus, where poets were supposed to draw their inspiration. The ancient a temple of Apollo there, where prophe plies to oven jets. cles were made; hence the phrase Delphian or Delphine oracles. A fountain called the Castalian spring, supposed to be frequented and patronized by poets, was situated on the mountain side near Delphi. A portion of the site recent years.

Cats' Eyes.

As showing how widely the perma nently blue eyes of cats differ from How to Wash Pongee So That It Looks other eyes it is noted that immediately the eyes of white cats that are to have colored eye does this.-San Francisco it retains its luster and looks like new

#### ++++**++**+++++++<del>+</del>+ HOW TO MANAGE YOUR COLD WEATHER VENTILATION.

It is easy enough to ventilate simply leaves most of the win-+ simply leaves most of the win-+ dows open most of the time. To + be sure, we are often assured by scientists that this method does not ventilate. We are even told that the air out of doors is not + age to thrive in the closeness of the outdoor atmosphere, and we manage to feel comfortable if we get a good deal of this atmos-

before using it to kill any harmful + phere into our houses, However, unless our houses are bacteria which might be present. + equipped with a system of artificial ventilating, open windows form the best means of ventilat-+ ing. It is, of course, a matter crushed ice will freeze the cream + settled nowadays that we sleep faster than coarse pieces. Use three 4 with open windows, one open at times as much ice as salt. Put plug + the top, one at the bottom. In inside of freezer while freezing. + this way we keep our bedrooms well aired. And in the house where the bedrooms serve only for sleeping rooms the windows 4 should be left open as much as possible during the day. Children especially should sleep in rooms that have been well ventilated throughout the day.

In the case of stormy weather 4 too much of the outdoors somefreezer and pack ice over top of can. 4 strong winds cheesecloth screens answer the purpose. For these 4 Let me say to those who have no . Just cover a regular screen frame 4 freezers that fairly good ice cream 4 with a couple of thicknesses of 4 can be made without one. I have & cheesecloth. Then put it in place.

Weatherboards to put in partor water ices. For ice cream heat + ly open windows are also admiyour cream before adding it to other + rable. These make ventilation possible without creating a very
big draft. 

### DENTAL HYGIENE.

How to Have Well Kept Teeth That Last a Lifetime.

made in a regular freezer and it is cannot all have small, even. more trouble to make but I am sure white teeth, but we can all have perif you try it you will agree that its fectly kept teeth. A careful mother begins the attention to her children's teeth as soon as they push through the gums. She cleans them with a bit of absorbent cotton on the end of her scrubbed finger, and as the child grows older she brushes them. Nowadays all the teeth of all school children are inspected, which will result in better teeth, with no false teeth before the age of fifty, except under unusual con-

ditions. The teeth should be brushed after every meal and cleaned with a paste at least every other day. Do not use any of the powders that are gritty. however cleansing they may be. Teeth cannot be treated the same as a bathtub. Always after eating anything every particle of food should be removed from between the teeth with dental floss. This is really the only safe means of dislodging foodstuff. Brush up and down on the surface of the teeth, not across. Gritty powders in time destroy the enamel, and brushing across the grain has the same effect. Brush the inner side of the teeth as thoroughly as the outer, being careful to cleanse the mouth well. Now. the average woman is apt to feel she has done her duty when the teeth are brushed. This is not true. A mouth wash is just as necessary Rinse the mouth daily with any good alkali wash.

#### How to Cover Buttons to Match Your Frock.

Do you cover your own buttons? It means a saving and gives variety to a costume. It can be done by crochet stitches or by needlework as well as by bits of fancy silk, too insignificant for any other use. Objections have been heard on the score that the result is not as satisfactory as professional work, but the answer to that is the injunction to do all the work neatly. Slipshod methods are to be condenned everywhere, although, to be sure, time is wasted in the inside finish of frocks. Even expensive dressmakers have taken a hint from Paris and concentrated on externals.

How to Develop the Art of Saving Gas When You Cook.

To get the greatest amount of heat from a gas range and not waste gas the gas should not be turned any higher than will give a perfect blue flame. When the flame becomes a yellowish red the gas is being wasted and giving a heat that smokes and smudges cooking utensils and shortens their period of usefulness about one half. cooking bave the flame about one-half inch of clear blue and after the article being cooked reaches the boiling point town got its name from its founder. reduce the flame to only such a height Delphus, son of Apollo, and there was as will keep it boiling. This also ap-

How to Make Beauty Bags For Your

Daily Bath. Make the bags of cheesecloth about four inches square or a little larger and fill them loosely with the followof the ancient town is now occupied by ing mixture; Oatmeal (not rolled oats), a village called Kastri, and interesting a pound; powdered orris root, a quarexcavations have been made there in ter of a pound; almond meal, a quarter of a pound; powdered castile soap, four ounces. A few drops of oil of verbena may be added if liked.

Like New. Wash a pongee garment or material in a warm suds of white soap and permanently blue eyes open they shine hang it out until bone dry. Under no bright red in the dark, and neither the consideration ever sprinkle it. Iron it ephemeral kitten blue nor any other on the wrong side, and you will find